



State of Ohio Environmental Protection Agency

**Southwest District Office**

40 South Main Street  
Dayton, Ohio 45402-2086  
(513) 285-6357  
FAX (513) 285-6404

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APR 26 1993  
SITE ASSESSMENT SECTION



George V. Voinovich  
Governor

April 20, 1993

RE: CARSTAB CORPORATION  
READING, OHIO  
HAMILTON COUNTY  
OHD 000 724 138

Ms. Jeanne Griffin  
U.S. EPA, Region V  
77 West Jackson Boulevard  
Chicago, Illinois 60604

Dear Ms. Griffin:

The Ohio Environmental Protection Agency (Ohio EPA) has completed its review of the draft Expanded Site Inspection (ESI) Report for the Carstab Corporation site in Reading, Ohio (dated March 10, 1993 and submitted April 5, 1993). The Ohio EPA has no comments on this document.

I have attached, for your information, a copy of the Director's Findings and Orders for the City of Reading Well Field, journalized February 16, 1993. Briefly, the orders allow the City of Reading ninety (90) days to submit plans for an alternative source of safe drinking water, and nine months after approval of the plans to be operationally connected to this alternative source. Assuming these deadlines are met, the Reading well field should be operational at least through the end of 1993. The Ohio EPA assumes the HRS score in the final ESI report will reflect, as it does in the draft, the fact that the well field was operational at the time of the ESI.

Thank you for the opportunity to comment on this document. If you have any questions, please contact me at 513-285-6065.

Sincerely,

Amy F. Gibbons  
Division of Emergency and Remedial Response

AFG

cc: w/attachment  
Laura Fay, Ohio EPA/DERR/CO  
Gabriel Rood, PRC, Project Manager  
File



BEFORE THE  
OHIO ENVIRONMENTAL PROTECTION AGENCYIn the Matter of:  
The City of ReadingDIRECTOR'S FINAL  
FINDINGS AND ORDERS

Pursuant to Section 6109.04 of the Revised Code, the Director of the Ohio Environmental Protection Agency hereby makes the following Findings and issues the following Orders:

FINDINGS

1. The City of Reading located in Hamilton County, Ohio operates a "public water system" as defined in Section 6109.01 of the Revised Code in that it regularly serves more than twenty-five persons with water piped for human consumption and has at least fifteen service connections, is a community public water system as defined in Rule 3745-81-01 of the Ohio Administrative Code, and uses a ground water source.
2. The Director issued the City of Reading a plan approval pursuant to Section 6109.07 of the Revised Code on December 2, 1986 for Well Number 15. This approval was conditional and required the City of Reading to develop an acceptable, uncontaminated source for its public water system. General plans for said source were required to be submitted to the Ohio EPA no later than December 2, 1989 with final detail plans submitted no later than one year after approval of the general plans or December 15, 1990 whichever occurs sooner, or other subsequent date determined by the OEPA.
3. The City of Reading submitted a general plan on December 22, 1989. The Agency reviewed that plan, and on August 1, 1990 requested well head protection data. A supplemental hydrogeologic report, submitted by the City on November 7, 1991, indicated that the site selected in the general plan (Drackett), was incapable of protection from surrounding sources of and vulnerable to potential chemical contamination. The City therefore opted not to proceed with development of that site.
4. In 1989, 1,2-dichloroethane in excess of the maximum contaminant level set forth in Rule 3745-81-12 of the Ohio Administrative Code was detected in the distribution system of the City of Reading. Benzene and other chlorinated hydrocarbons were also detected.
5. On November 17, 1989, the City of Reading submitted plans to treat its chemically contaminated well water by means of a packed tower aerator. Said plans were approved with OEPA conditions on May 17, 1990 pursuant to Section 6109.07 of the Revised Code. These conditions required the City of Reading to seek an alternative safe source of drinking

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ENTERED DIRECTOR'S JOURNAL

By: Mike Macken Date 2/16/93

water, under the same time schedule as the plans referred to in Finding Number 2 above.

6. To date, the City of Reading has not submitted plans for an alternative acceptable safe source of drinking water as required by the plan approval of Finding Number 5 above, but continues to utilize the packed tower aerator.
7. To date, the City of Reading has not obtained an alternative, acceptable safe source of drinking water.
8. The City of Reading has prepared a "Remedial Investigation/Feasibility Study" dated June 16, 1992, confirming that the aquifer it is using as a source of drinking water is chemically contaminated and all available alternative ground water sites are either equally contaminated or vulnerable to contamination. The City has therefore completed its evaluation of all the feasible alternatives it had identified.
9. The City of Reading is currently using a ground water source contaminated with 1,2-dichloroethane above the maximum contaminant level set forth in Rule 3745-81-12 of the Ohio Administrative Code. Said source of drinking water is being treated by packed tower aerator to bring the level of this contaminant below the regulatory maximum contaminant level.
10. Rule 3745-9-04 of the Ohio Administrative Code requires wells for public water systems to be located so as to preclude the entrance of surface or sub-surface contaminants. The aquifer from which the City of Reading obtains its water contains levels of other chlorinated hydrocarbons and chemical contaminants including those not amenable to removal by packed tower aeration. Continued use of this contaminated water by the City of Reading presents an ever increasing risk to public health. Since the currently utilized wellfield is unacceptably vulnerable and unprotected from increasing levels of chemical contamination, and the packed tower aerator may become ineffective in treating all contaminants, thereby permitting entrance of those chemical contaminants into the public water system, the continued use of this source presents an unacceptable risk to public health.
11. On July 13, 1992, the Director of the Ohio Environmental Protection Agency issued Findings and Orders to the City of Reading requiring the City to obtain an alternative source of safe drinking water and included a schedule for the installation of the alternative safe source.

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By: Miki Mackey Date 2/16/93

ORDERS

1. Since the City of Reading has been unable to obtain an acceptable, alternative source of drinking water over the last six years and since its existing source contains organic chemical contaminants in excess of the maximum contaminant levels set forth in Rule 3745-81-12 of the Ohio Administrative Code, the Director hereby orders:

- a. Within ninety (90) days of the execution of these Orders the City of Reading shall submit approvable detail plans, accompanied by appropriate fees, for the installation of an acceptable alternative source of safe drinking water, to the Ohio EPA, Southwest District Office, Division of Drinking and Ground Waters.
- b. Within nine months of formal approval of the detail plan for the installation of an alternative safe source of drinking water required in a. above, by the Director, the City of Reading shall install and be operationally connected to said alternative safe source of drinking water.
- c. Upon completion of the installation of an alternative safe source of drinking water, the City of Reading shall no longer use any of its wells for obtaining drinking water and shall physically disconnect all of its wells from the drinking water system.
- d. All disconnected wells shall be maintained in accordance with Ohio Administrative Code Rule 3745-9-09. The City of Reading shall, within one hundred-fifty (150) days of ceasing to use any well for obtaining ground water or for determining the quality, quantity, or level of ground water, properly abandon any unused wells in accordance with Ohio Administrative Code Rule 3745-9-10.
- e. The authorization for the continued use of existing source by the City of Reading shall terminate upon its failure to meet the deadlines stated in a. and b. above.

2. The Findings and Orders issued July 13, 1992 are hereby revoked by this order.

IT IS SO ORDERED:

*Donald R. Schregardus*  
 Donald R. Schregardus, Director  
 Ohio Environmental Protection Agency

February 16, 1993  
 Date

I certify this to be a true and accurate copy of the official document as filed in the records of the Ohio Environmental Protection Agency.

By: *Mike McKey* Date: 2/16/93

CHIEF DIRECTOR'S JOURNAL

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